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Famodu, Omolayo O.

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35 40 45
Gly His His Asn His Pro Lys Pro Gln Pro Asn Arg Arg Leu Ala Ala
50 55 60
Gly Ala Val Pro Ser Ser Gln Ala Glu Glu Arg Tyr Asp Gly Val Ala
65 70 75 80
Pro Ile Glu Asp Lys Pro Ser Asn Ile Tyr Ser Asn Leu Cys Asn Gln
85 90 95
Ala His Ser Ala Gly Met Val Asp Asn Val Pro Gly Pro Ala Ser Asp
100 105 110
Asp Asp Val Asp Ala Gly Gly Gly Arg Pro Xaa Pro Gly Gly Met Thr
115 120 125
Xaa Met Met Met Met Thr Xaa Xaa Ser Lys Thr Gln Gly Lys Trp Asn
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35 40 45
Leu Phe His Arg Gly Ala Arg Gly Val Pro Lys Phe Lys Ser Ala Gln
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Phe	Ala	Ile	Pro	Pro	Gly	Leu	Ser	Pro	Ala	Glu	Leu	Leu	Asp	Ser	Pro
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Val	Leu	Leu	His	Ser	Ser	Ser	Asn	Ile	Leu	Ala	Ser	Pro	Thr	Thr	Gly
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Ala	Ser	Gln	Ser	Gln	Gln	Asp	Gly	Asp	Ser	Arg	Ala	Ala	Ala	Ala	Gly
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 <212> DNA
 <213> *Oryza sativa*

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<211> 488
<212> PRT
<213> Oryza sativa

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 Gly Ser Ser Gly Gly Met Gly Gly Gly Ala Gly Gly Asn Pro Val Arg
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 Glu Pro Arg Leu Val Val Gln Thr Leu Ser Asp Ile Asp Ile Leu Asp
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 Asn Gly Phe Arg Trp Arg Lys Tyr Gly Gln Lys Val Val Lys Gly Asn
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 Arg Lys His Val Glu Arg Ala Ser His Asp Thr Arg Ala Val Ile Thr
 385 390 395 400
 Thr Tyr Glu Gly Lys His Asn His Asp Val Pro Val Arg Pro Arg Arg
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 Ser Gly Pro Thr Asp Val Ala Ala Ala Gln Gln Gly Pro Tyr Thr Leu
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 Glu Met Leu Pro Asn Pro Ala Gly Leu Tyr Gly Gly Tyr Gly Ala Gly
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 <213> *Oryza sativa*

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 <211> 487
 <212> PRT
 <213> *Oryza sativa*

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Asp Leu Leu Gly Ala Gly Gly Glu Glu Arg Ser Pro Arg Gly Phe Ser
      35              40              45

Arg Gly Gly Ala Arg Val Gly Gly Gly Val Pro Lys Phe Lys Ser Ala
      50              55              60

Gln Pro Pro Ser Leu Pro Leu Ser Pro Pro Pro Val Ser Pro Ser Ser
      65              70              75              80

Tyr Phe Ala Ile Pro Pro Gly Leu Ser Pro Thr Glu Leu Leu Asp Ser
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Pro Val Leu Leu Ser Ser Ser His Ile Leu Ala Ser Pro Thr Thr Gly
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Ala Ile Pro Ala Gln Arg Tyr Asp Trp Lys Ala Ser Ala Asp Leu Ile
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Ala Ser Gln Gln Asp Asp Ser Arg Gly Asp Phe Ser Phe His Thr Asn
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Ser Asp Ala Met Ala Ala Gln Pro Ala Ser Phe Pro Ser Phe Lys Glu
      145             150             155             160

Gln Glu Gln Gln Val Val Glu Ser Ser Lys Asn Gly Ala Ala Ala Ala
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Ser Ser Asn Lys Ser Gly Gly Gly Gly Asn Asn Lys Leu Glu Asp Gly
      180             185             190

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 Lys Val Glu Arg Ser Leu Ala Asp Gly Arg Ile Thr Gln Ile Val Tyr
 225 230 235 240
 Lys Gly Ala His Asn His Pro Lys Pro Leu Ser Thr Arg Arg Asn Ala
 245 250 255
 Ser Ser Cys Ala Thr Ala Ala Ala Cys Ala Asp Asp Leu Ala Ala Pro
 260 265 270
 Gly Ala Gly Ala Asp Gln Tyr Ser Ala Ala Thr Pro Glu Asn Ser Ser
 275 280 285
 Val Thr Phe Gly Asp Asp Glu Ala Asp Asn Ala Ser His Arg Ser Glu
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 Gly Asp Glu Pro Glu Ala Lys Arg Trp Lys Glu Asp Ala Asp Asn Glu
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 Gly Ser Ser Gly Gly Met Gly Gly Gly Ala Gly Gly Lys Pro Val Arg
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 Asp Gly Phe Arg Trp Arg Lys Tyr Gly Gln Lys Val Val Lys Gly Asn
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 Pro Asn Pro Arg Ser Tyr Tyr Lys Cys Thr Thr Val Gly Cys Pro Val
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 Thr Tyr Glu Gly Lys His Asn His Asp Val Pro Val Gly Arg Gly Gly
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 Arg Pro Ser Ala Val Ala Ala Ala Gln Gln Gly Pro Tyr Thr Leu Glu
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<211> 1928

<212> DNA
<213> Glycine max

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aaaaaaaaa 1928

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<211> 575
<212> PRT
<213> Glycine max

<400> 10
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35 40 45
Gly Leu Ser Glu Arg Thr Gly Ser Gly Val Pro Lys Phe Lys Ser Thr
50 55 60
Pro Pro Pro Ser Leu Pro Leu Ser Pro Pro Pro Ile Ser Pro Ser Ser
65 70 75 80
Tyr Phe Ala Ile Pro Pro Gly Leu Ser Pro Ala Glu Leu Leu Asp Ser

85										90					95				
Pro	Val	Leu	Leu	Asn	Ser	Ser	Asn	Ile	Leu	Pro	Ser	Pro	Thr	Thr	Gly				
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Ala	Phe	Val	Ala	Gln	Ser	Phe	Asn	Trp	Lys	Ser	Ser	Ser	Gly	Gly	Asn				
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Gln	Gln	Ile	Val	Lys	Glu	Glu	Asp	Lys	Ser	Phe	Ser	Asn	Phe	Ser	Phe				
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Gln	Thr	Arg	Ser	Gly	Pro	Pro	Ala	Ser	Ser	Thr	Ala	Thr	Tyr	Gln	Ser				
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Ser	Asn	Val	Thr	Val	Gln	Thr	Gln	Gln	Pro	Trp	Ser	Phe	Gln	Glu	Ala				
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Thr	Lys	Gln	Asp	Asn	Phe	Ser	Ser	Gly	Lys	Gly	Met	Met	Lys	Thr	Glu				
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Gln	Ser	Gln	Thr	Leu	Ser	Arg	Arg	Ser	Asp	Asp	Gly	Tyr	Asn	Trp	Arg				
225					230					235					240				
Lys	Tyr	Gly	Gln	Lys	Gln	Val	Lys	Gly	Ser	Glu	Asn	Pro	Arg	Ser	Tyr				
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Tyr	Lys	Cys	Thr	Tyr	Pro	Asn	Cys	Pro	Thr	Lys	Lys	Lys	Val	Glu	Arg				
			260					265					270						
Ser	Leu	Asp	Gly	Gln	Ile	Thr	Glu	Ile	Val	Tyr	Lys	Gly	Thr	His	Asn				
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His	Pro	Lys	Pro	Gln	Asn	Thr	Arg	Arg	Asn	Ser	Ser	Asn	Ser	Ser	Ser				
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Leu	Ala	Ile	Pro	His	Ser	Asn	Ser	Ile	Arg	Thr	Glu	Ile	Pro	Asp	Gln				
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Ser	Tyr	Ala	Thr	His	Gly	Ser	Gly	Gln	Met	Asp	Ser	Ala	Ala	Thr	Pro				
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Glu	Asn	Ser	Ser	Ile	Ser	Ile	Gly	Asp	Asp	Asp	Phe	Glu	Gln	Ser	Ser				
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Gln	Lys	Cys	Lys	Ser	Gly	Gly	Asp	Glu	Tyr	Asp	Glu	Asp	Glu	Pro	Asp				
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Ala	Lys	Arg	Trp	Lys	Ile	Glu	Gly	Glu	Asn	Glu	Gly	Met	Ser	Ala	Pro				
	370					375					380								
Gly	Ser	Arg	Thr	Val	Arg	Glu	Pro	Arg	Val	Val	Val	Gln	Thr	Thr	Ser				
385					390					395					400				
Asp	Ile	Asp	Ile	Leu	Asp	Asp	Gly	Tyr	Arg	Trp	Arg	Lys	Tyr	Gly	Gln				
				405					410					415					

Lys Val Val Lys Gly Asn Pro Asn Pro Arg Ser Tyr Tyr Lys Cys Thr
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 His Pro Gly Cys Pro Val Arg Lys His Val Glu Arg Ala Ser His Asp
 435 440 445
 Leu Arg Ala Val Ile Thr Thr Tyr Glu Gly Lys His Asn His Asp Val
 450 455 460
 Pro Ala Ala Arg Gly Ser Gly Ser His Ser Val Asn Arg Pro Met Pro
 465 470 475 480
 Asn Asn Ala Ser Asn His Thr Asn Thr Ala Ala Thr Ser Val Arg Leu
 485 490 495
 Leu Pro Val Ile His Gln Ser Asp Asn Ser Leu Gln Asn Gln Arg Ser
 500 505 510
 Gln Ala Pro Pro Glu Gly Gln Ser Pro Phe Thr Leu Glu Met Leu Gln
 515 520 525
 Ser Pro Gly Ser Phe Gly Phe Ser Gly Phe Gly Asn Pro Met Gln Ser
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 Tyr Val Asn Gln Gln Gln Leu Ser Asp Asn Val Phe Ser Ser Arg Thr
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 Lys Glu Glu Pro Arg Asp Asp Met Phe Leu Glu Ser Leu Leu Cys
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 <212> DNA
 <213> Triticum aestivum

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<210> 12

<211> 619

<212> PRT

<213> Triticum aestivum

<400> 12

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Asp Arg Arg Val Ala Ala Leu Ala Gly Ala Gly Ala Arg Tyr Lys Ala
      35              40              45

Met Ser Pro Ala Arg Leu Pro Ile Ser Arg Glu Pro Cys Leu Thr Ile
      50              55              60

Pro Ala Gly Phe Ser Pro Ser Ala Leu Leu Asp Ser Pro Val Leu Leu
      65              70              75              80

Thr Asn Phe Lys Val Glu Pro Ser Pro Thr Thr Gly Ser Leu Ser Met
      85              90              95

Ala Ala Ile Met His Lys Ser Ala His Pro Asp Ile Leu Pro Ser Pro
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Arg Asp Lys Ser Ile Arg Ala His Glu Asp Gly Gly Ser Arg Asp Phe
      115             120             125

Glu Phe Lys Pro His Leu Asn Ser Ser Ser Gln Ser Leu Ala Pro Ala
      130             135             140

Met Ser Asp Leu Lys Lys His Glu His Ser Met Gln Asn Gln Ser Met
      145             150             155             160

Asn Pro Ser Ser Ser Ser Ser Asn Met Val Asn Glu Asn Arg Pro Pro
      165             170             175

Cys Ser Arg Glu Ser Ser Leu Thr Val Asn Val Ser Ala Pro Asn Gln
      180             185             190

Pro Val Gly Met Val Gly Leu Thr Asp Asn Met Pro Ala Glu Val Gly
      195             200             205

Thr Ser Glu Pro Gln Gln Met Asn Ser Ser Asp Asn Ala Met Gln Glu

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Ser Tyr Tyr Lys Cys Thr His Pro Asn Cys Glu Val Lys Lys Leu Leu 260 265 270		
Glu Arg Ala Val Asp Gly Leu Ile Thr Glu Val Val Tyr Lys Gly Arg 275 280 285		
His Asn His Pro Lys Pro Gln Pro Asn Arg Arg Leu Ala Gly Gly Ala 290 295 300		
Val Pro Ser Asn Gln Gly Glu Glu Arg Tyr Asp Gly Ala Ala Ala Ala 305 310 315 320		
Asp Asp Lys Ser Ser Asn Ala Leu Ser Asn Leu Ala Asn Pro Val Asn 325 330 335		
Ser Pro Gly Met Val Glu Pro Val Pro Val Ser Val Ser Asp Asp Asp 340 345 350		
Ile Asp Ala Gly Gly Gly Arg Pro Tyr Pro Gly Asp Asp Ala Thr Glu 355 360 365		
Glu Asp Leu Glu Ser Lys Arg Arg Lys Met Glu Ser Ala Gly Ile Asp 370 375 380		
Ala Ala Leu Met Gly Lys Pro Asn Arg Glu Pro Arg Val Val Val Gln 385 390 395 400		
Thr Val Ser Glu Val Asp Ile Leu Asp Asp Gly Tyr Arg Trp Arg Lys 405 410 415		
Tyr Gly Gln Lys Val Val Lys Gly Asn Pro Asn Pro Arg Ser Tyr Tyr 420 425 430		
Lys Cys Thr Ser Thr Gly Cys Pro Val Arg Lys His Val Glu Arg Ala 435 440 445		
Ser His Asp Pro Lys Ser Val Ile Thr Thr Tyr Glu Gly Lys His Asn 450 455 460		
His Glu Val Pro Ala Ala Arg Asn Ala Thr His Glu Met Ser Ala Pro 465 470 475 480		
Pro Met Lys Asn Val Val His Gln Ile Asn Ser Ser Met Pro Ser Ser 485 490 495		
Ile Gly Gly Met Met Arg Ala Cys Glu Ala Arg Asn Phe Ser Asn Gln 500 505 510		
Tyr Ser Gln Ala Ala Glu Thr Asp Asn Val Ser Leu Asp Leu Gly Val 515 520 525		
Gly Ile Ser Pro Asn His Ser Asp Ala Thr Asn Gln Met Gln Ser Ser 530 535 540		

Gly Pro Asp Gln Met Gln Tyr Gln Met Gln Ser Met Ala Ser Met Tyr
 545 550 555 560
 Gly Asn Met Arg His Pro Ser Ser Met Ala Val Pro Thr Val Gln Gly
 565 570 575
 Asn Ser Ala Gly Arg Met Tyr Gly Ser Arg Glu Glu Lys Gly Asn Glu
 580 585 590
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 595 600 605
 Tyr Ser Gly Ala Gly Asn Leu Val Met Gly Pro
 610 615

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 <212> PRT
 <213> Ipomoea batatas

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 35 40 45
 Asp Arg Ile Ala Glu Arg Thr Gly Ser Gly Val Pro Lys Phe Lys Ser
 50 55 60
 Leu Pro Pro Pro Ser Leu Pro Leu Ser Ser Pro Ala Val Ser Pro Ser
 65 70 75 80
 Ser Tyr Phe Ala Phe Pro Pro Gly Leu Ser Pro Ser Glu Leu Leu Asp
 85 90 95
 Ser Pro Val Leu Leu Ser Ser Ser Asn Ile Leu Pro Ser Pro Thr Thr
 100 105 110
 Gly Thr Phe Pro Ala Gln Thr Phe Asn Trp Lys Asn Asp Ser Asn Ala
 115 120 125
 Ser Gln Glu Asp Val Lys Gln Glu Glu Lys Gly Tyr Pro Asp Phe Ser
 130 135 140
 Phe Gln Thr Asn Ser Ala Ser Met Thr Leu Asn Tyr Glu Asp Ser Lys
 145 150 155 160
 Arg Lys Asp Glu Leu Asn Ser Leu Gln Ser Leu Pro Pro Val Thr Thr
 165 170 175
 Ser Thr Gln Met Ser Ser Gln Asn Asn Gly Gly Ser Tyr Ser Glu Tyr
 180 185 190
 Asn Asn Gln Cys Cys Pro Pro Ser Gln Thr Leu Arg Glu Gln Arg Arg
 195 200 205

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Gly	Ser	Glu	Asn	Pro	Arg	Ser	Tyr	Tyr	Lys	Cys	Thr	His	Pro	Asn	Cys		
225					230					235					240		
Pro	Thr	Lys	Lys	Lys	Val	Glu	Arg	Ala	Leu	Asp	Gly	Gln	Ile	Thr	Glu		
				245					250					255			
Ile	Val	Tyr	Lys	Gly	Ala	His	Asn	His	Pro	Lys	Pro	Gln	Ser	Thr	Arg		
			260					265					270				
Arg	Ser	Ser	Ser	Ser	Thr	Ala	Ser	Ser	Ala	Ser	Thr	Leu	Ala	Ala	Gln		
		275					280					285					
Ser	Tyr	Asn	Ala	Pro	Ala	Ser	Asp	Val	Pro	Asp	Gln	Ser	Tyr	Trp	Ser		
	290						295				300						
Asn	Gly	Asn	Gly	Gln	Met	Asp	Ser	Val	Ala	Thr	Pro	Glu	Asn	Ser	Ser		
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				325					330					335			
Ser	Gly	Gly	Asp	Glu	Phe	Asp	Glu	Asp	Glu	Pro	Asp	Ala	Lys	Arg	Trp		
			340					345					350				
Lys	Val	Glu	Asn	Glu	Ser	Glu	Gly	Val	Ser	Ala	Gln	Gly	Ser	Arg	Thr		
		355					360					365					
Val	Arg	Glu	Pro	Arg	Val	Val	Val	Gln	Thr	Thr	Ser	Asp	Ile	Asp	Ile		
	370					375					380						
Leu	Asp	Asp	Gly	Tyr	Arg	Trp	Arg	Lys	Tyr	Gly	Gln	Lys	Val	Val	Lys		
385					390					395					400		
Gly	Asn	Pro	Asn	Pro	Arg	Ser	Tyr	Tyr	Lys	Cys	Thr	Ser	Gln	Gly	Cys		
				405					410					415			
Pro	Val	Arg	Lys	His	Val	Glu	Arg	Ala	Ser	His	Asp	Ile	Arg	Ser	Val		
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Ile	Thr	Thr	Tyr	Glu	Gly	Lys	His	Asn	His	Asp	Val	Pro	Ala	Ala	Arg		
		435					440					445					
Gly	Ser	Gly	Ser	His	Gly	Leu	Asn	Arg	Gly	Ala	Asn	Pro	Asn	Asn	Asn		
	450					455					460						
Ala	Ala	Met	Ala	Met	Ala	Ile	Arg	Pro	Ser	Thr	Met	Ser	Leu	Gln	Ser		
465					470					475					480		
Asn	Tyr	Pro	Ile	Pro	Ile	Pro	Ser	Thr	Arg	Pro	Met	Gln	Gln	Gly	Glu		
				485					490					495			
Gly	Gln	Ala	Pro	Tyr	Glu	Met	Leu	Gln	Gly	Ser	Gly	Gly	Phe	Gly	Tyr		
			500					505					510				
Ser	Gly	Phe	Gly	Asn	Pro	Met	Asn	Ala	Tyr	Ala	Asn	Gln	Ile	Gln	Asp		
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Asp Thr Leu Leu Ala
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<210> 14

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic oligonucleotide

<400> 14

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